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Naming amines practice worksheet with answers pdf online test 1

To practice all areas of Chemistry, here is complete set of 1000+ Multiple Choice Questions and Answers. a) primary b) secondary c) tertiary d) secondary and tertiary View AnswerAnswer: d Explanation: For the naming of 2° and 3° amines, the locant N is used as a prefix to identify the substituent attached to the nitrogen atom. a) Hexane-1,3-diamine b) Hexane-1,4-diamine c) Hexane-1,5-diamine d) Hexane-1,6-diamine View AnswerAnswer: d Explanation: The formula is NH₂-(CH₂)₆-NH₂ which is the chain of 6 carbon atoms and two amino groups at the ends of the chain, i.e., first and sixth carbon. Since it is a primary amine, the group NH₂ can be separated leaving us with CH₂. 5. a) Ethylamine b) Aminoethane c) Ethanamine d) Ethane amine View AnswerAnswer: c Explanation: Ethylamine and aminoethane are the names of CH₃CH₂NH₂ according to the common system and second system respectively. 8. What is the correct common name of H₂N-CH₂-CH₂-NH₂? The systematic methods of naming amines follow a simple procedure: primary amines: ALKYLamine secondary amines: ALKYLALKYLamine or diALKYLamine tertiary amines: ALKYLALKYLALKYLamine or triALKYLamine amine: organic molecule in which a nitrogen atom is bonded to one or more alkyl group This script written by William Reusch, Dept. So, the formula of the compound is C₆H₅CH₂NH₂, which is benzylamine. Chapter 10. In the IUPAC system, the prefix N- is generally used for _____ amines. a) Ethylenediamine b) 1,2-Diaminoethane c) Ethyldiamine d) Aminoethylamine View AnswerAnswer: a Explanation: In this compound, more than one amino group is present at different positions in the parent chain. Hence, the name pentane-1,5-diamine. The prefix di is used to indicate the two amino groups and the letter 'e' of the suffix part of pentane is retained. In order to continue enjoying our site, we ask that you confirm your identity as a human. The IUPAC naming of aryl amines is done by replacing the suffix 'e' of the arene by amine. 14. Amines are a basic functional group. The IUPAC name of allylamine is prop-2-en-1-amine. Both the amino groups are given equal importance and none of them is considered a substituent on the other. In such compounds, the amino group is given preference and hence the double bond lies at the second carbon. Sanfoundry Global Education & Learning Series - Chemistry - Class 12. Aniline is a common name but is also accepted by IUPAC. An amine is an organic derivative of ammonia (NH₃). A primary amine has one H atom substituted with an R group; A secondary amine has two H atoms substituted with an R group; A tertiary amine has all three H atoms substituted with R groups; The basicity of an amine's nitrogen atom plays an important role in much of the compound's chemistry. 10. An acid-base reaction occurs when an amine is mixed with an acid. a) True b) False View AnswerAnswer: b Explanation: Aniline is an aromatic aryl amine, whereas benzylamine is an arylalkyl amine. Which of the following names of aromatic amines does not belong to the common naming system? Identify the incorrect name of the aromatic primary amine with the formula C₇H₉N. What is the IUPAC name of the following compound? a) Ethylmethylamine b) Aniline c) Benzenamine d) Propan-1-amine View AnswerAnswer: a Explanation: In the common system, aliphatic amines are named by prefixing the alkyl group to amine, i.e., alkylamine. What is the correct IUPAC name of H₂N-(CH₂)₅-NH₂? a) Benzenamine b) Benzylamine c) Phenylaminomethane d) Phenylmethanamine View AnswerAnswer: a Explanation: Since it is an aromatic compound, the phenyl group C₆H₅ has to present with CH₄N. Name and draw structures for primary, secondary and tertiary amines. Please send comments and corrections to whreusch@pilot.msu.edu. Stay connected with him at LinkedIn. Subscribe to his free Masterclasses at Youtube & technical discussions at Telegram SanfoundryClasses. Next Steps: Get Free Certificate of Merit in Chemistry - Class 12 Participate in Chemistry - Class 12 Certification Contest Become a Top Ranker in Chemistry - Class 12 Take Chemistry - Class 12 Tests Chapterwise Practice Tests: Chapter 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 Chapterwise Mock Tests: Chapter 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 Manish Bhojasia, a technology veteran with 20+ years @ Cisco & Wipro, is Founder and CTO at Sanfoundry. Therefore, aniline is named as benzenamine. The prefix di- is used before amine, and since it is a disubstituted ethane, it is referred to as ethylene. He lives in Bangalore, and focuses on development of Linux Kernel, SAN Technologies, Advanced C, Data Structures & Algorithms, Benzylamine is the IUPAC name of aniline. Participate in Chemistry - Class 12 Certification Contest of the Month Now! 6. Whereas, the number position of carbon is used in the IUPAC system. Which of the following names of amines belong strictly to the common system? Naming Amines The alkyl groups connected to the nitrogen atom are named separately and followed by "amine." If some alkyl groups are the same, then a prefix is used (di or tri), as illustrated here for a few simple examples: Name the following organic compounds: a) (CH₃)₂NCH₂CH₃ b) CH₃CH₂CH₂NHCH₃ c) CH₃(CH₃CH₂)₂NCH₂CH₂CH₃ Solution a) ethyldimethylamine b) methylpropylamine c) ethylmethylpropylamine Test Yourself Give the condensed structure of the following amines: a) butylamine b) trihexylamine c) methylpentylamine Answer a) CH₃CH₂CH₂CH₂NH₂ b) (CH₃CH₂CH₂CH₂CH₂)₃N c) CH₃(CH₃CH₂CH₂CH₂CH₂)₂NH Compounds containing a nitrogen atom bonded in a hydrocarbon framework are classified as amines. 2. This type of substitution is named and hexamethylene. a) True b) False View AnswerAnswer: a Explanation: Allylamine (NH₂-CH₂-CH=CH₂) is an unsaturated amine with the amino group attached to an allyl carbon. of Chemistry, Michigan State University. One of the methyl groups is considered as the parent chain with the N atom and the other two acts as substituents. In case of tertiary amines with same substituent groups, the prefix used is N, N-. This set of Chemistry Multiple Choice Questions & Answers (MCQs) focuses on "Amines Nomenclature - 1". The prefix N,N-Di is used for the ethyl groups and this collective group is attached at the first carbon of the butyl group. Which of the following is the IUPAC name of the compound in which one hydrogen of ammonia is replaced by an ethyl group? 1. What is the correct IUPAC name of CH₃-NH-CH₂CH₃? Thank you very much for your cooperation. The prefixes o-, m- and p- are used to depict the position of the substituent in common system. 9. 11. In amines, one or more of the H atoms in NH₃ is substituted with an organic group. These are represented by N, N- as they are the same groups and are directly attached to the nitrogen atom. Hexamethylenediamine is named as _____ in the IUPAC system. a) Trimethylamine b) N-Methylethanamine c) N,N-Dimethylmethanamine d) N,N,N-Trimethylamine View AnswerAnswer: c Explanation: The compound is a tertiary amine with three methyl substituents. 13. 12. 3. The smaller alkyl group (CH₃) is considered as the substituent which is attached to the N atom. Which of the following is the correct IUPAC name of (CH₃)₃N? Distinguish between a primary, secondary and tertiary amine. The amino group is attached to the second carbon of the propyl group (which is also known as isopropyl substituent). a) Pentan-1,5-diamine b) 1,5-Diaminopentane c) Pentamethylenediamine d) Pentane-1,5-diamine View AnswerAnswer: d Explanation: The parent carbon chain consists of five atoms with one amino group at each end, i.e., first and fifth carbon. Organic Chemistry By the end of this section, you will be able to: Describe the structure and properties of an amine. Aniline is both accepted as the common and IUPAC names. 4. Hence, it is N-methyl and not N-ethyl. a) N-Propylamine b) Isopropylamine c) 2-Aminopropane d) Propan-2-amine View AnswerAnswer: a Explanation: The shown compound is a primary amine and hence the locant N cannot be used as it is invalid. In case of two different alkyl groups, it is named by listing the alkyl groups in alphabetical order before the word amine, just like in ethylmethylamine. a) N-Ethylpentan-1-amine b) N-Ethylpentan-2-amine c) N,N-Diethylbutan-1-amine d) N-Ethyl-N-Butylethanamine View AnswerAnswer: c Explanation: This is a tertiary amine with two identical alkyl substituents (ethyl group) and one butyl group which acts as the major chain. Benzenamine has the formula C₆H₅NH₂. 7. a) Aniline b) o-Toluidine c) 4-Bromoaniline d) N-Methylaniline View AnswerAnswer: c Explanation: In the common system, the aromatic amines have special names derived from the basic compound aniline and depending upon the type of substituent group. In the IUPAC system, the naming is done by replacing the 'e' of the alkane by amine. a) N-Methylethanamine b) N-Ethylmethanamine c) N-Ethyl-N-methylmethanamine d) N-Ethyl-N-methylamine View AnswerAnswer: a Explanation: This is a secondary amine with an ethyl and a methyl group. Identify the incorrect name of the shown compound.

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